

# ANNUAL MEETING

*SOUTHERN CALIFORNIA ACADEMY OF SCIENCES*

May 7–8, 2010



*California State University  
Los Angeles, CA*

### **Future SCAS Meetings**

2011 - California Polytechnic University, Pomona, May 6-7

2012 - Occidental College, May 4-5

### **Acknowledgements**

The Southern California Academy of Sciences wishes to acknowledge the following organizations and people for their support of the 2009 Annual Meeting.



**Special thanks to the SCAS 2010 Annual Meeting Local Committee at California State University, Los Angeles: Phil LaPolt**

### **Student Grants**

The Southern California Academy of Sciences supports a program of Grants to graduate students. One stipulation for the winners is that they present their research at the following year's Annual Meeting. This year's award winners were

**Andres Carrillo**, California State University, Fullerton

**Effects of extended incubation on skeletal development, body shape and feeding rates in the California grunion, *Leuresthes tenuis*.**

**Elyse Gatdula**, California Polytechnic University, Pomona

**Molecular biogeography of some California species of Aglajidae (Mollusca: Opisthobranchia)**

**Aaron Sappenfield**, University of California, Riverside

**Depositional environments of the Wood Canyon Formation (southern California) and their influence on the distribution and preservation of Ediacaran macrofauna**

## STUDENT AWARDS FOR BEST PAPER AND POSTER

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Undergraduate or graduate students working towards a degree who elect to participate are eligible for best paper or poster awards in several categories, the categories are;

- E – Ecology and Evolution
- F – Fishery biology
- M – Molecular Biology and physiology
- P – Physical Science

The American Institute of Fishery Research Biologists will present the awards in Fishery Biology. The Southern California Academy of Sciences will present the other awards.

### 2010 SCAS Annual Meeting -Oral Presentation Awardees

#### PHYSICAL SCIENCES

##### EVALUATING CONTROLS ON HYDROLOGIC RECOVERY IN BURNED WATERSHEDS IN THE SAN BERNARDINO MOUNTAINS

Alicia M. Kinoshita and Terri S. Hogue. Water Resources and Hydrology, UCLA, Department of Civil and Environmental Engineering, Los Angeles, CA90095.

#### MOLECULAR BIOLOGY AND PHYSIOLOGY

##### EFFECTS OF DELAYED HATCHING ON MUSCLE AND SKELETAL DEVELOPMENT, SWIMMING ACTIVITY, AND FEEDING RATE IN LARVAL CALIFORNIA GRUNION, *LEURESTHES TENUIS*

T. Treybig, A. Carrillo, and K. Dickson. California State University Fullerton, Department of Biological Science, Fullerton, CA, 92834.

#### ECOLOGY AND EVOLUTION

##### ABUNDANCE, HABITAT USE AND MOVEMENT PATTERNS OF THE SHOVELNOSE GUITARFISH (*RHINOBATOS PRODUCTUS*) IN A SOUTHERN CALIFORNIA ESTUARY

T.J. Farrugia, M. Espinoza and C.G. Lowe. California State University Long Beach, Department of Biological Sciences, Long Beach, CA 90840.

#### Honorable Mention, Ecology and Evolution

##### ECOPHYSIOLOGICAL STUDY OF *RUSCUS ACULEATUS* AND *R. MICROGLOSSUM*: MORPHOLOGY, GAS EXCHANGE, AND HYDRAULICS

A. Pivovarovff, R. Sharifi, L. Sack, and P. Rundel. UCLA, Department of Ecology and Evolutionary Biology, Los Angeles, CA, 90095-1606.

## STUDENT POSTER AWARD WINNERS

### ECOLOGY AND EVOLUTIONARY BIOLOGY

#### THE EFFECTS OF ILLUMINATION, SCENT, AND MICROHABITAT AS PREDATOR CUES ON THE FORAGING BEHAVIOR OF MOJAVE DESERT RODENTS

Bryan White and Anthony Garcia, Southern California Ecosystems Research Program (NSF-UMEB), California State University Fullerton, Department of Biological Sciences, Fullerton, CA, 92831

### FISHERIES BIOLOGY

#### THE EFFECTS OF OCEANOGRAPHIC VARIABILITY AND FISHING PRESSURE ON FISH POPULATIONS AT ROCKY POINT.

Chelsea Munoz, Mackenzie Hansler, and Drew Hanson. Vantuna Research Group, Occidental College, Department of Biology, Los Angeles, CA, 90041

### MOLECULAR BIOLOGY AND PHYSIOLOGY

#### EFFECTS OF GLUTATHIONE ON DENDRITIC CELL RESPONSE TO *MYCOBACTERIUM TUBERCULOSIS* INFECTION

Brenda Gonzalez<sup>1,2</sup>, Karanjodh Johal<sup>1</sup>, Carlos Guerra<sup>1</sup>, Alan Cundari<sup>1</sup>, John Chan<sup>2</sup> and Vishwanath Venketaraman<sup>1,2\*</sup> <sup>1</sup> California State Polytechnic University, Pomona, CA, <sup>2</sup> College of Osteopathic Medicine of the Pacific, Western University of Health Sciences, CA 92336.

### Honorable mention: Molecular biology

#### THE ESTROGENIC EFFECTS OF DIETHYLSTILBESTROL ON THE MATURATION AND DIFFERENTIATION OF EMBRYONIC THYMOCYTES

Faraj Mourad, University of La Verne, Biology Department, La Verne, CA, 91750

### PHYSICAL SCIENCE

#### NUTRIENT ANALYSIS OF THE BALLONA SALTWATER MARSH, ESTUARY AND CREEK

Dominic Leone and John Dorsey. Santa Monica Bay Restoration Commission, Loyola MaryMount University, Department of Natural Science, Los Angeles, CA, 90045